

FIG. 1

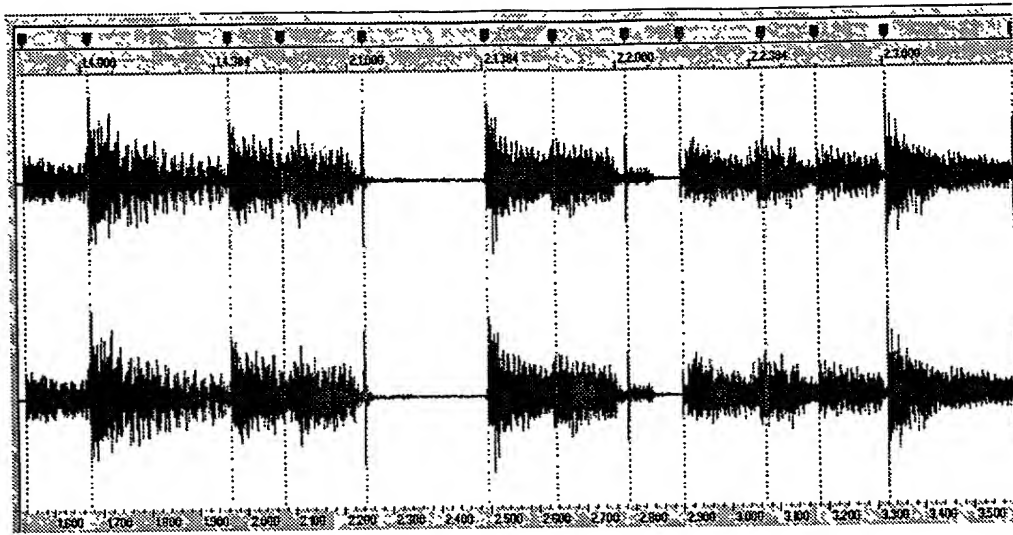


FIG. 2A

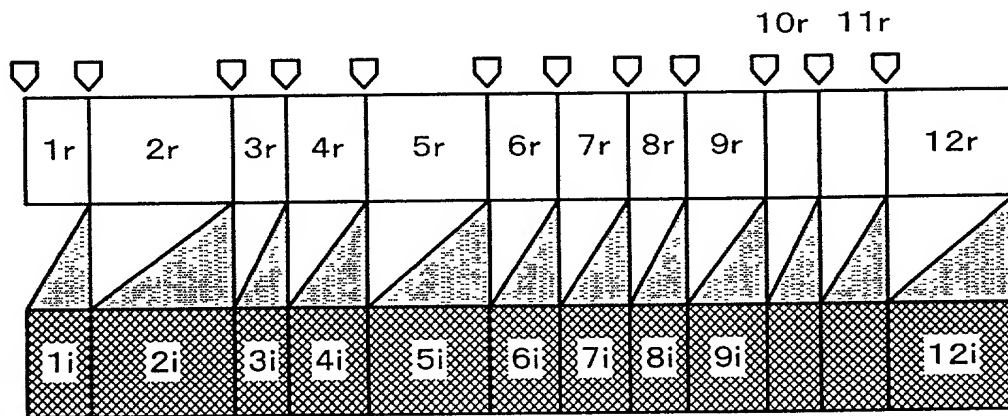


FIG. 2B

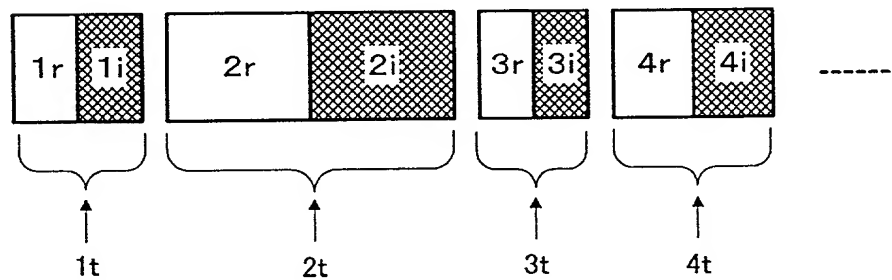


FIG. 2C

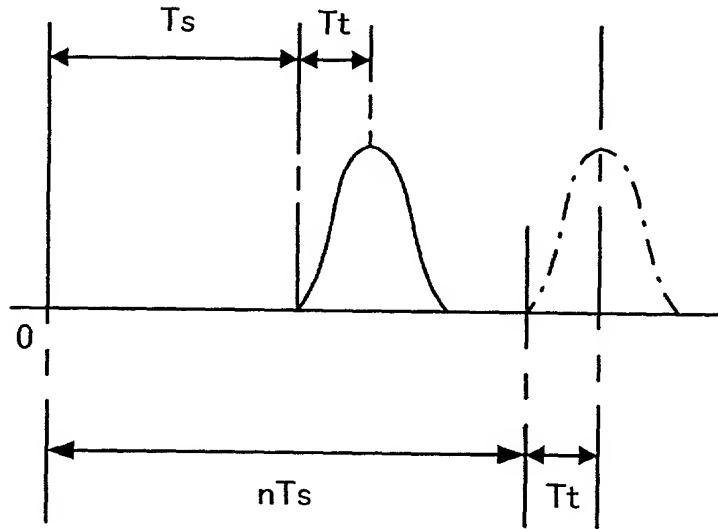


FIG. 3A

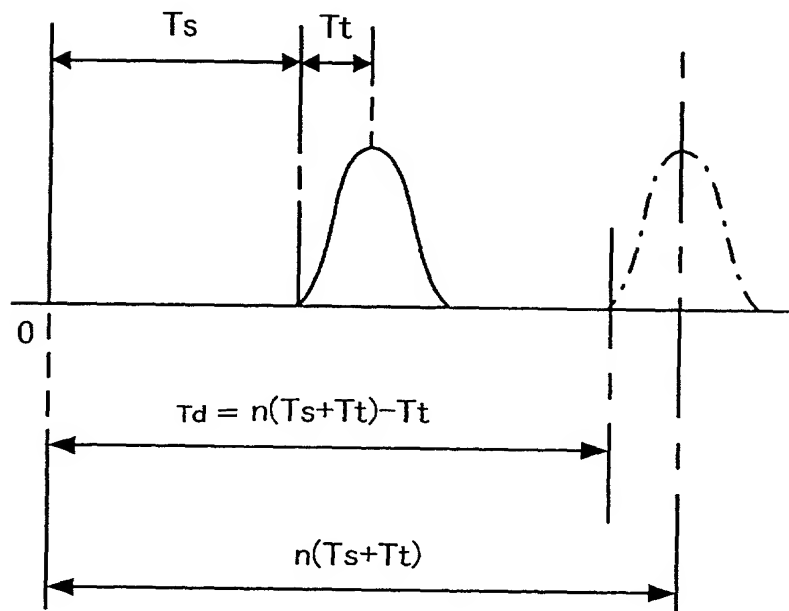


FIG. 3B

10051973.011602

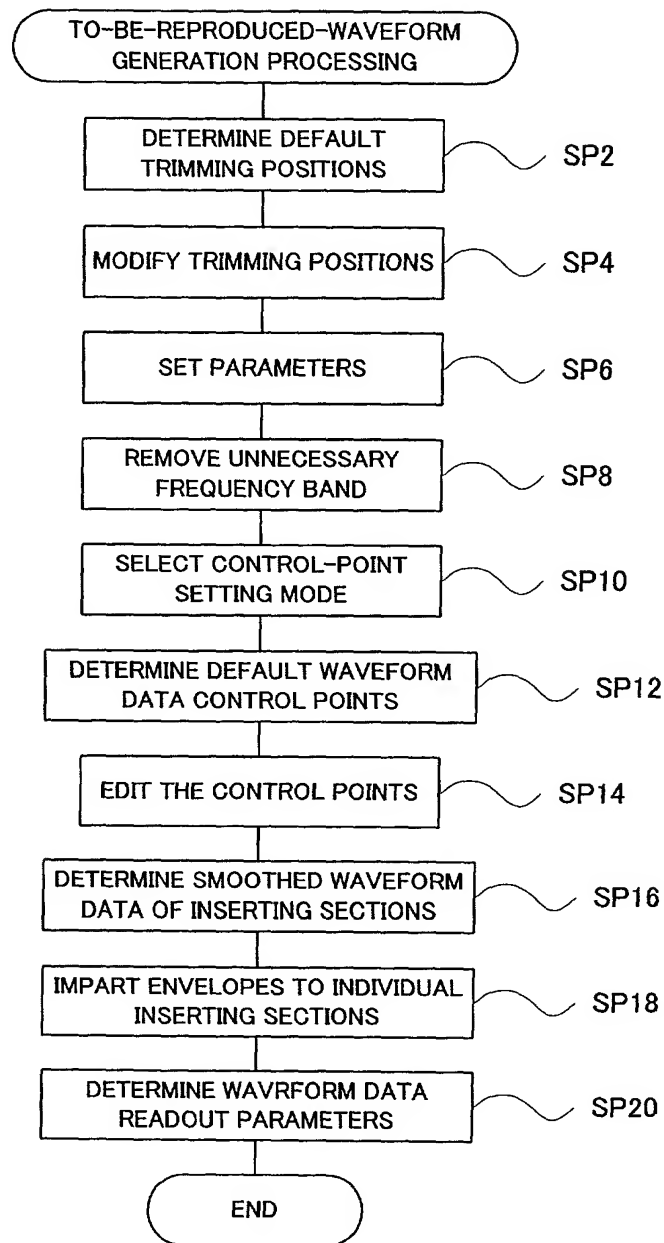


FIG. 4

INPUT SIGNAL

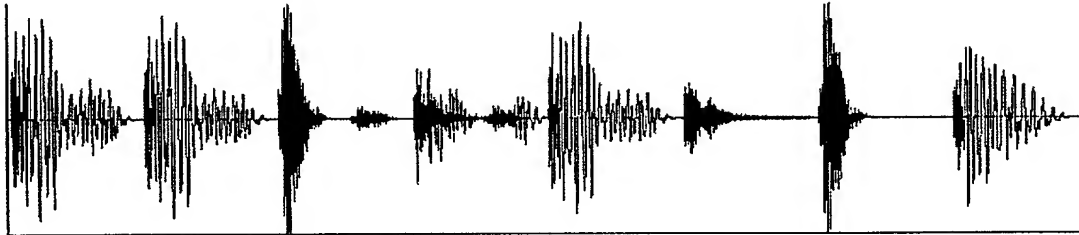


FIG. 5 A

RESULT OF UNNECESSARY FREQUENCY BAND REMOVAL

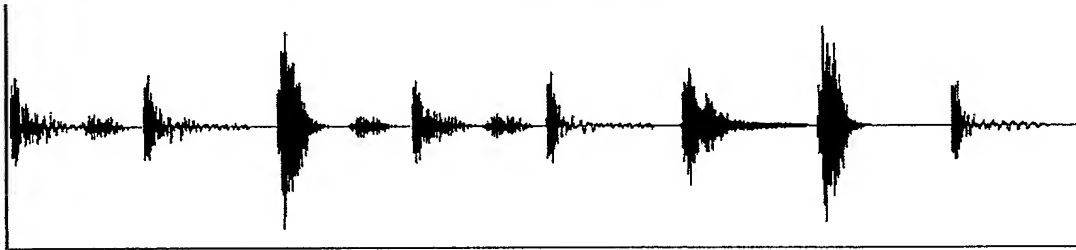


FIG. 5 B

nr

ni

(n+1)r

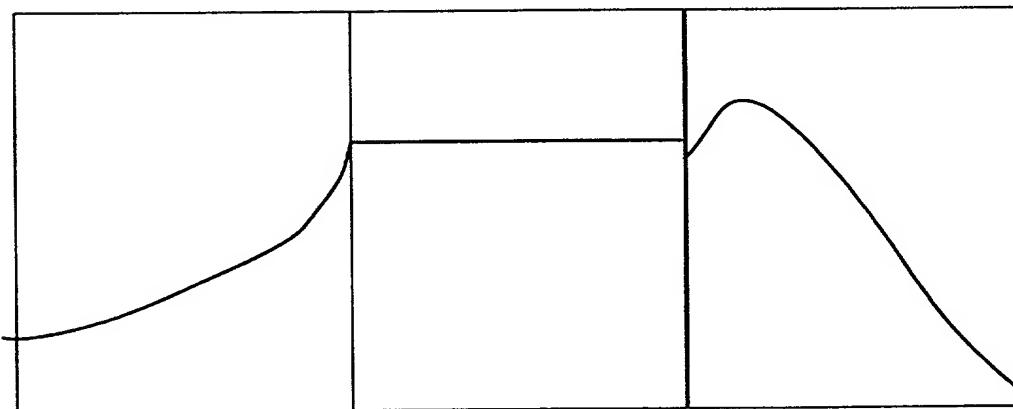


FIG. 15

1005193.01603

( CONTROL POINTS STEP SP12 )

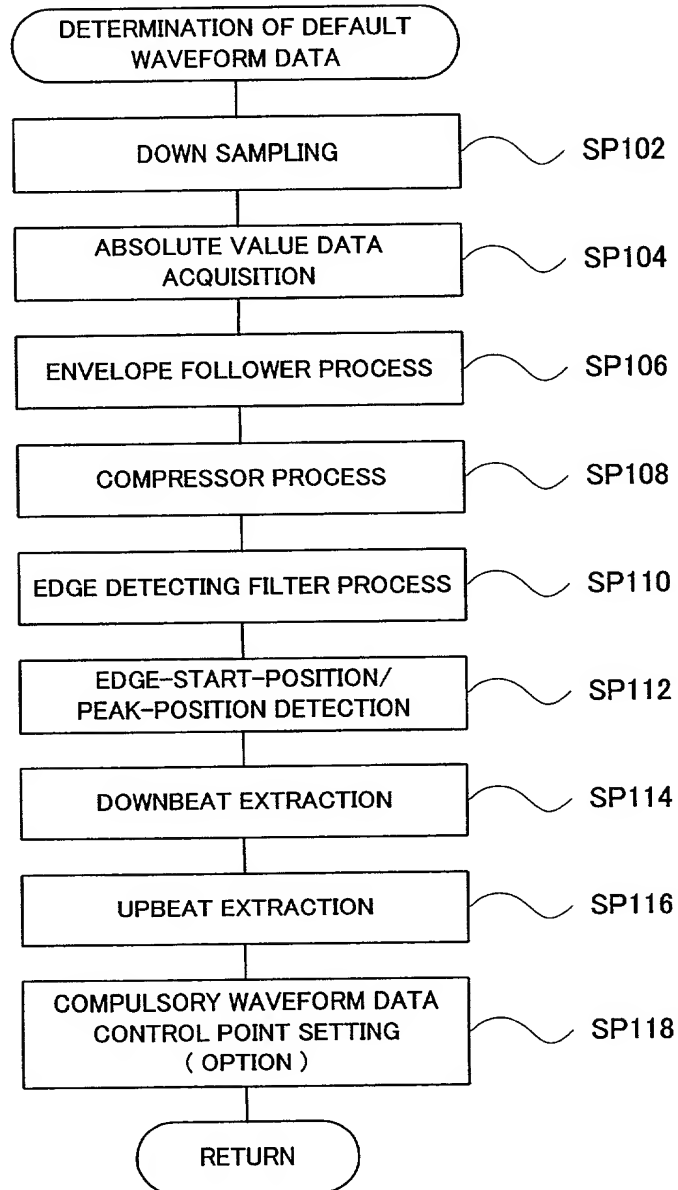


FIG. 6

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ABSOLUTE VALUE



FIG. 7A

RESULT OF ENVELOPE FOLLOWER PROCESS

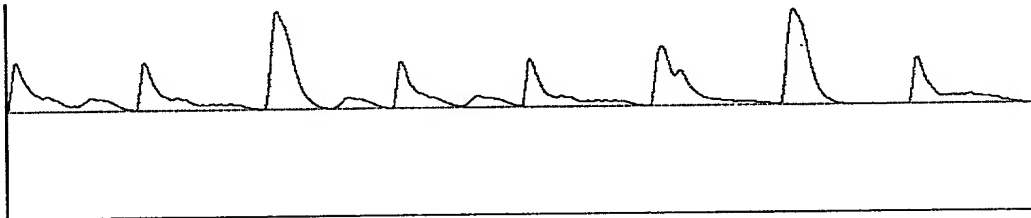


FIG. 7B

RESULT OF LOW-PASS FILTER PROCESS



FIG. 7C

RESULT OF COMPRESSOR PROCESS

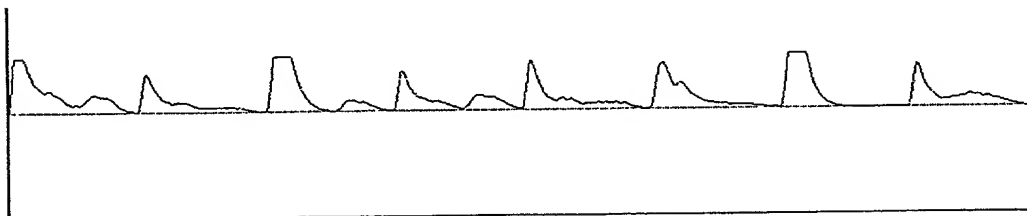


FIG. 7D

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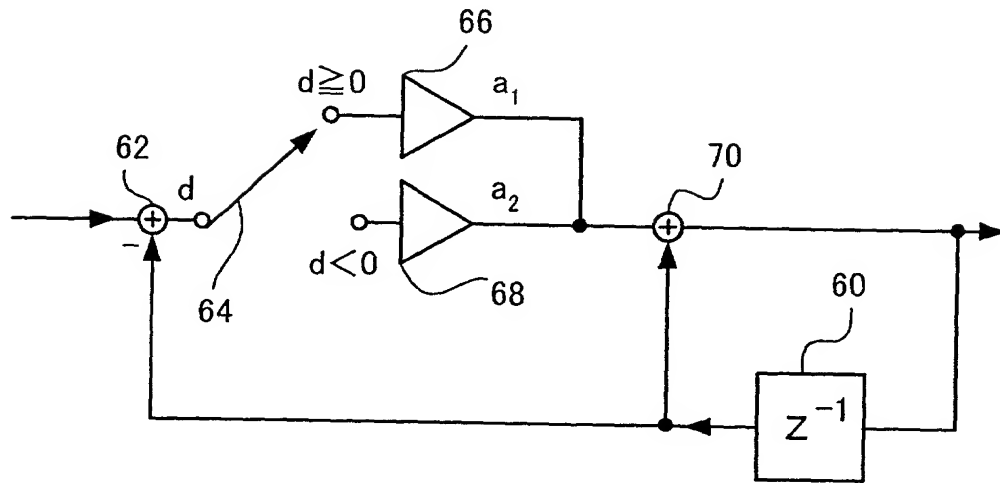


FIG. 8

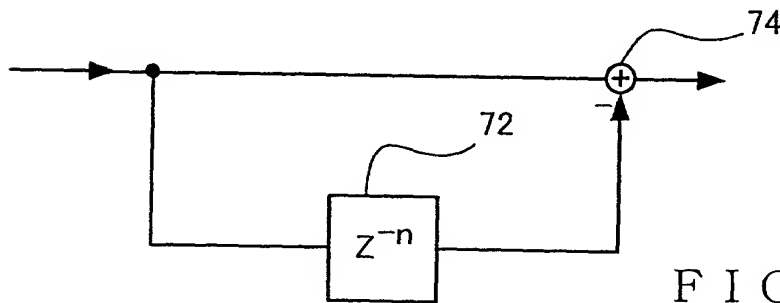
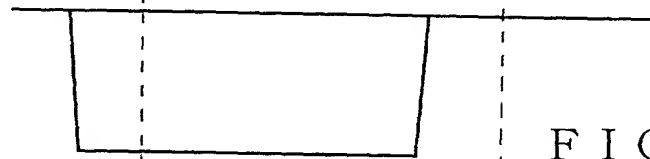


FIG. 9A

INPUT SIGNAL



DELAYED/INVERTED  
SIGNAL



OUTPUT SIGNAL

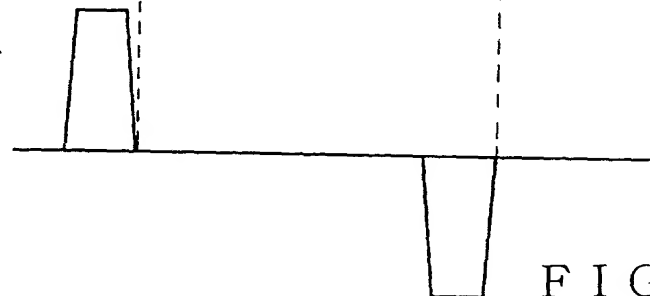


FIG. 9D

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RESULT OF EDGE EXTRACTION

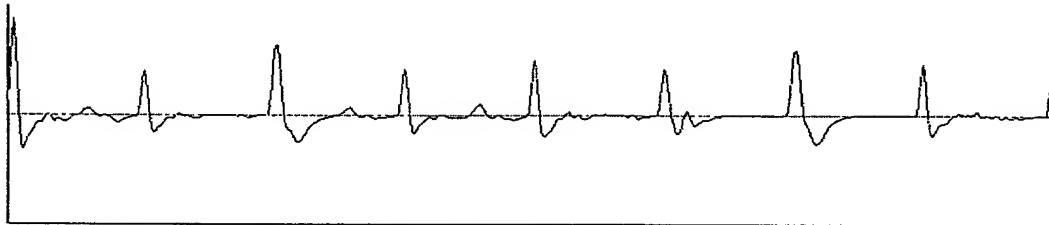


FIG. 10A

EDGE INFORMATION

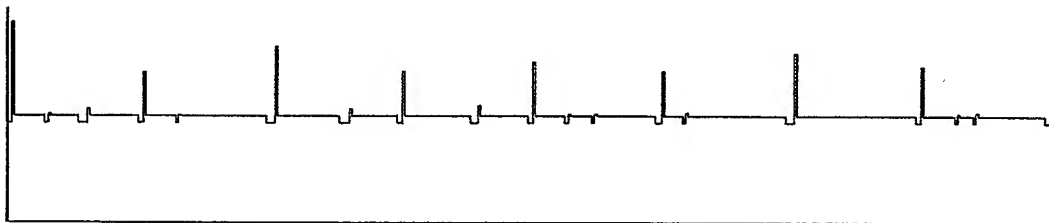


FIG. 10B

DOWNBEAT DETECTING WINDOW

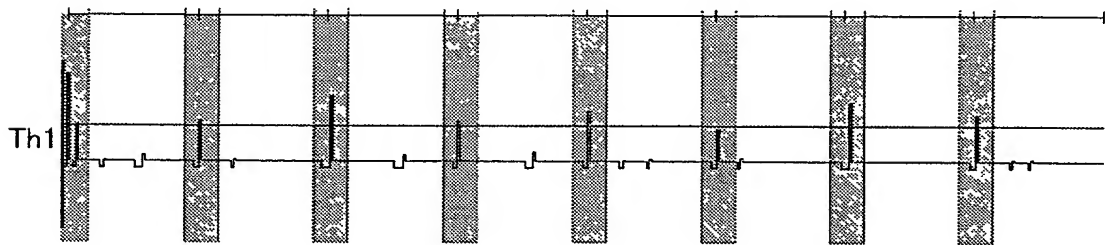


FIG. 10C

RESULT OF DOWNBEAT DETECTION

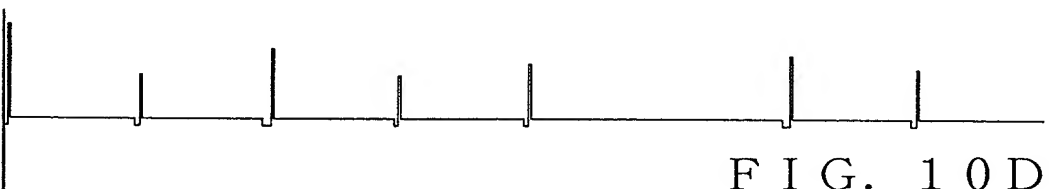


FIG. 10D

201707261501

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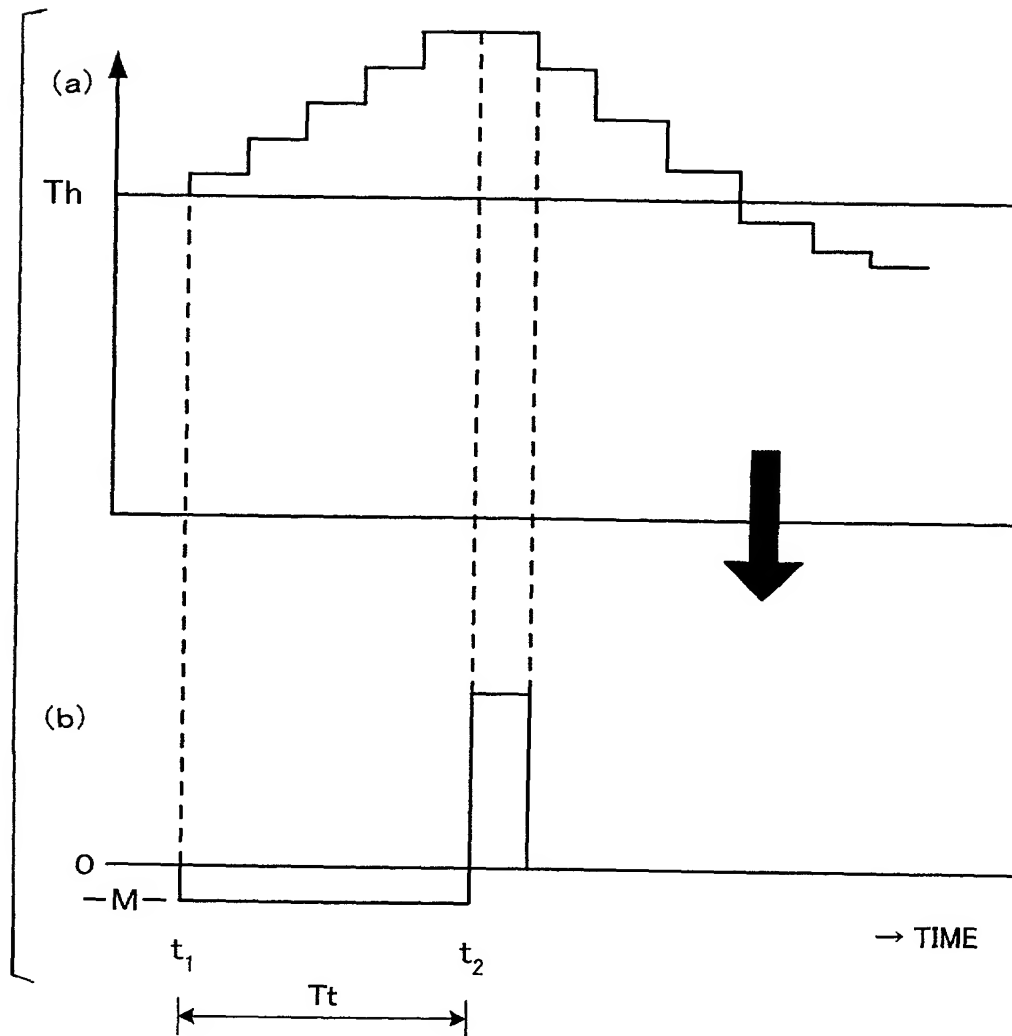
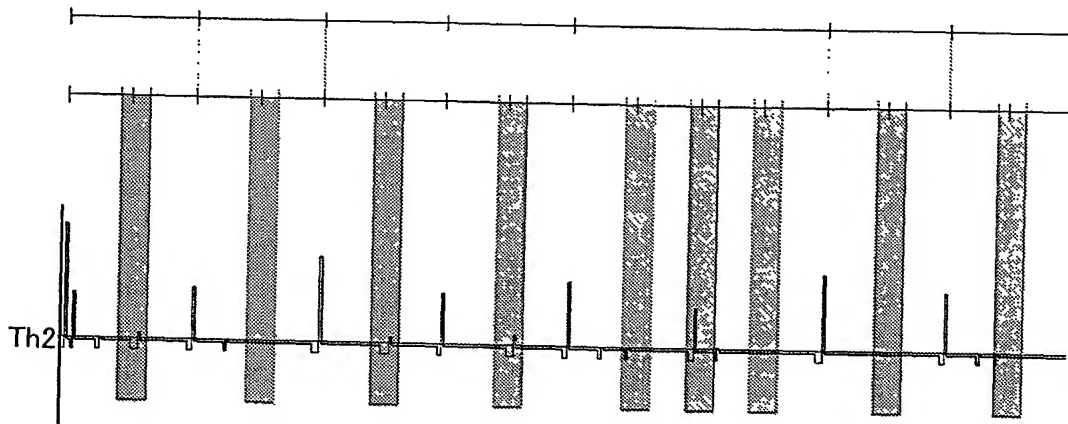


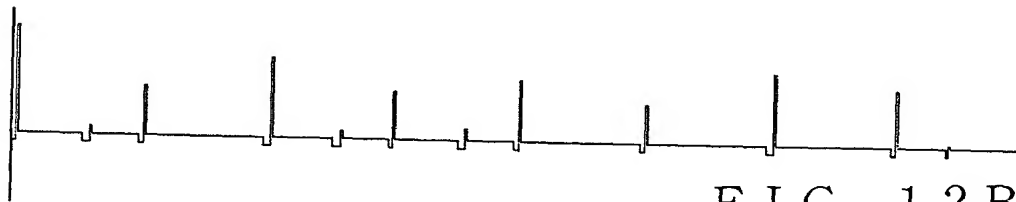
FIG. 11

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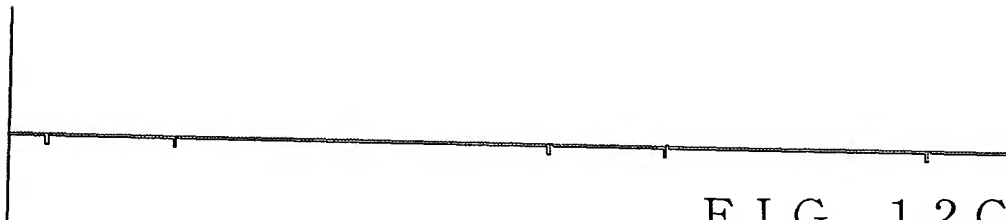
UPBEAT DETECTING WINDOW



RESULT OF DOWNBEAT & UPBEAT DETECTION



EDGE INFORMATION EXCLUDED FROM DETECTING WINDOW



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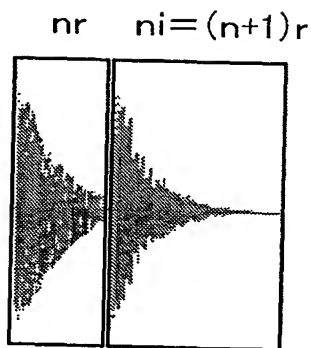


FIG. 13A

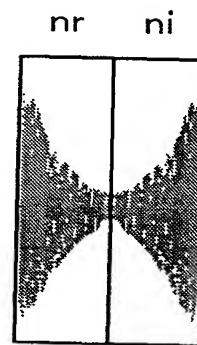


FIG. 13B

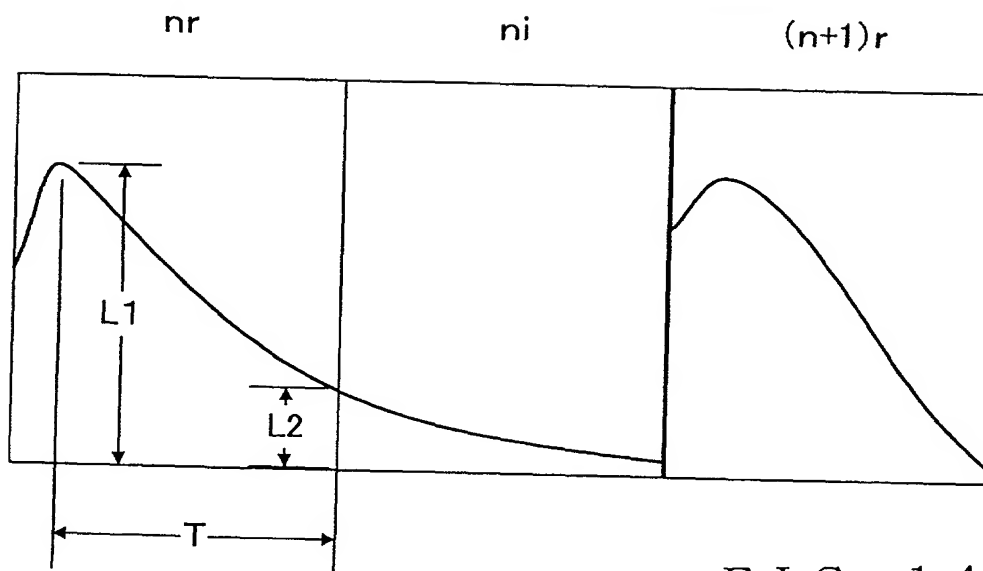


FIG. 14

2025-01-15 10:54:59

WAVEFORM-DATA-GENERATION- START TRIGGERING CLOCK COUNT	WAVEFORM DATA	RISING TIME $t_t$ [ msec ]
0	1t	0
28	2t	30
74	3t	40
:	:	:
349	11t	20
370	12t	10

FIG. 16

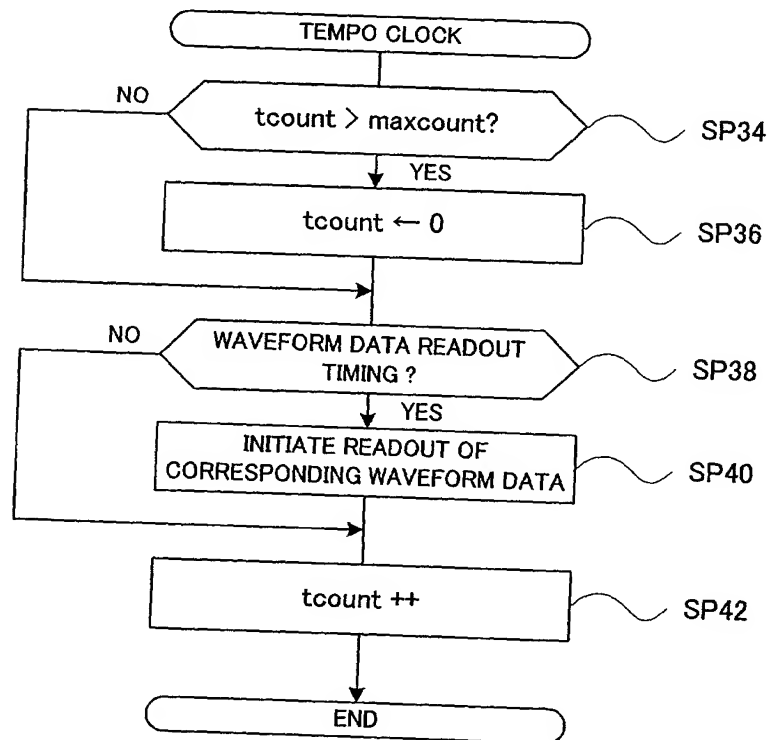


FIG. 17

20251019 01:50:00

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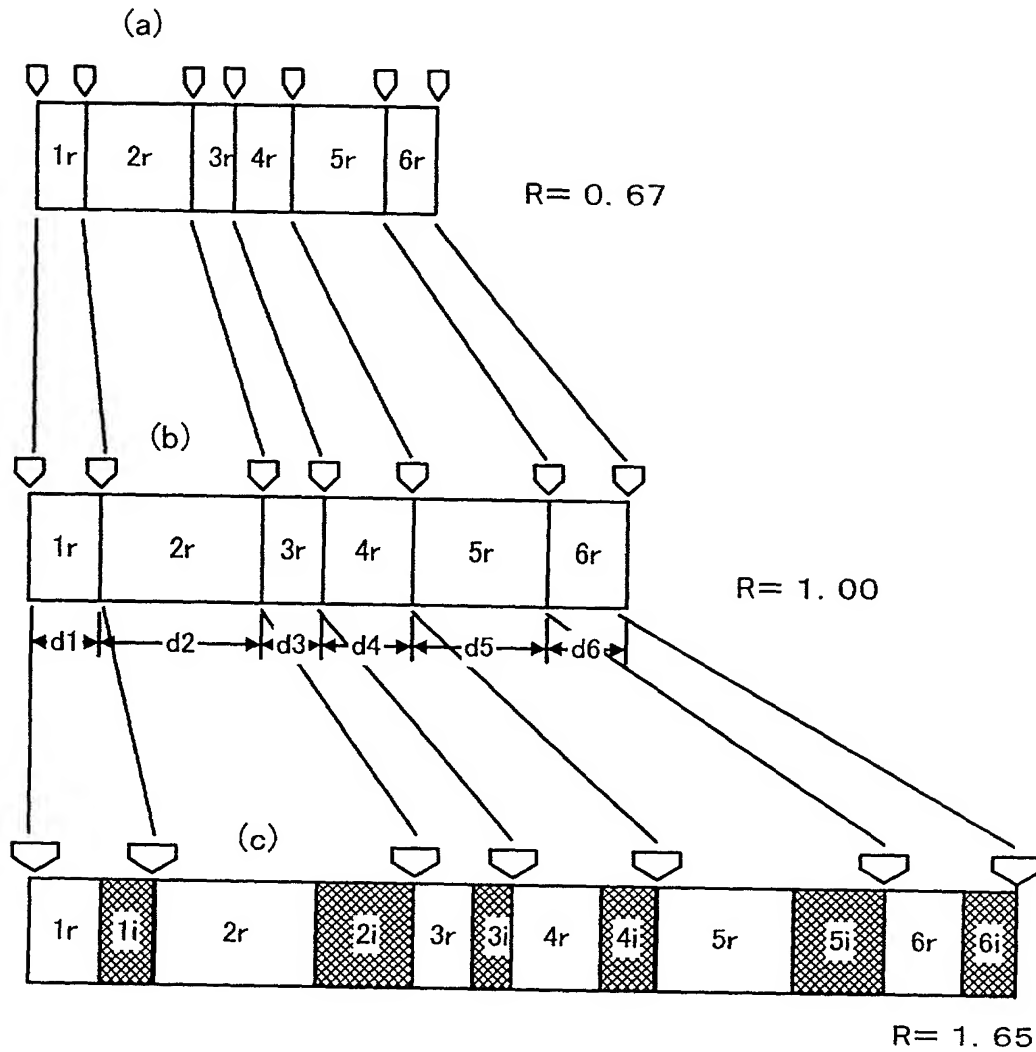


FIG. 18

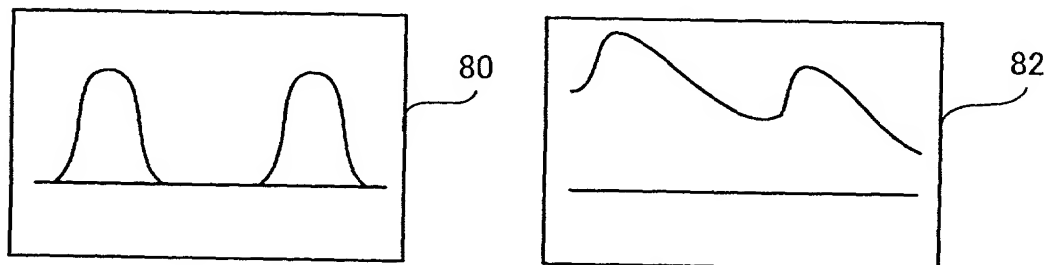


FIG. 19

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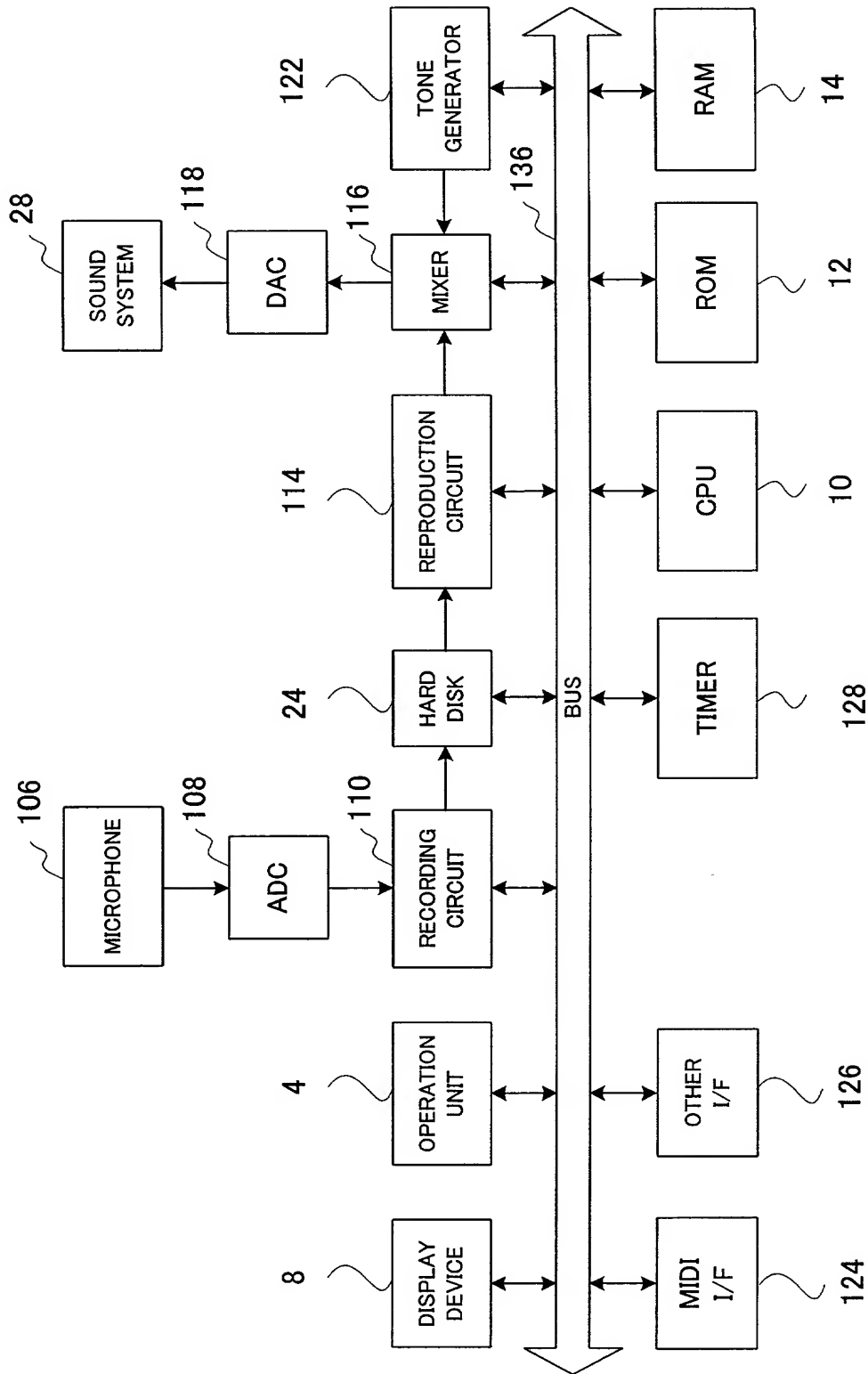


FIG. 20

20091010 E2615001

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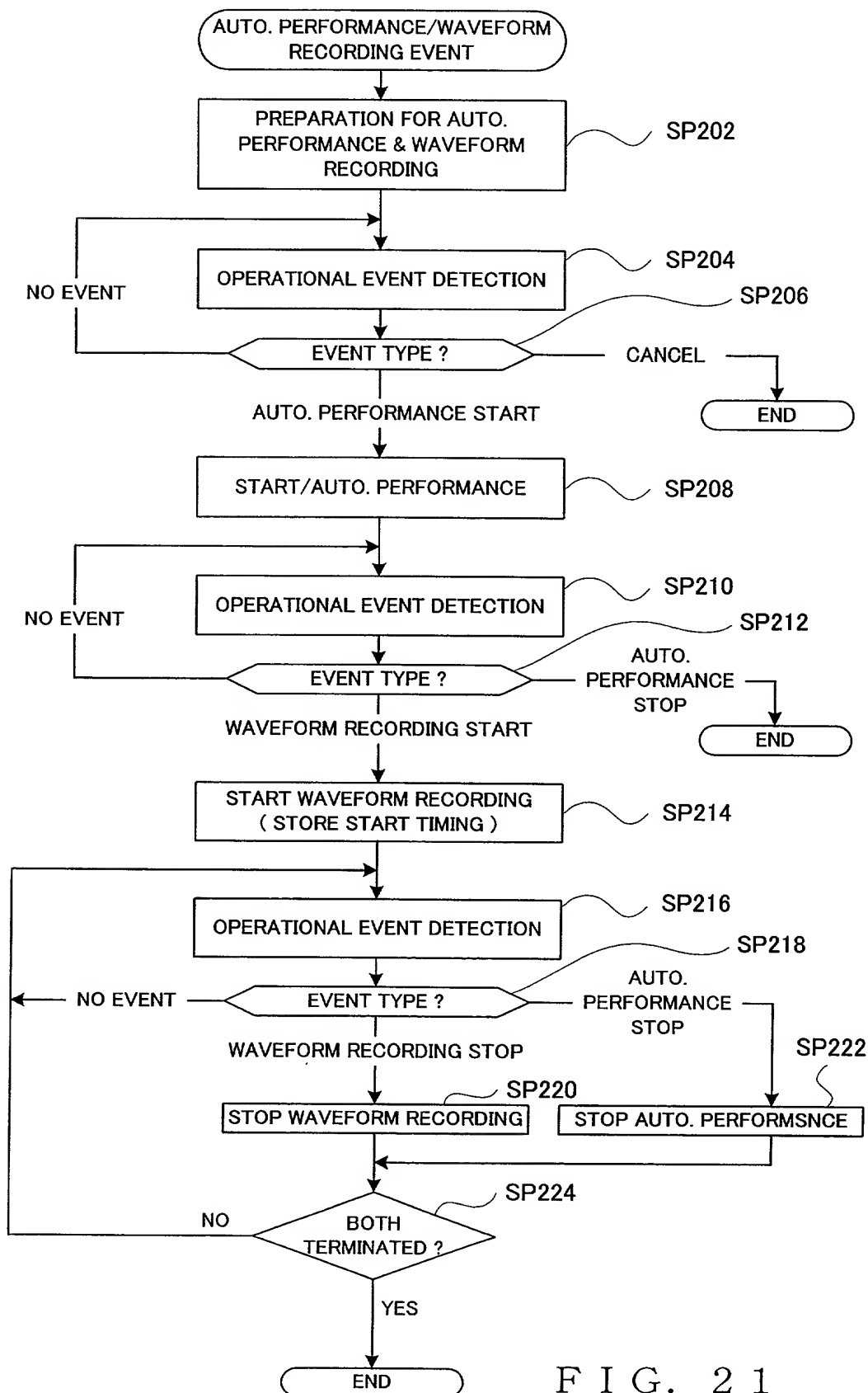


FIG. 21

2025.03.04.15.00



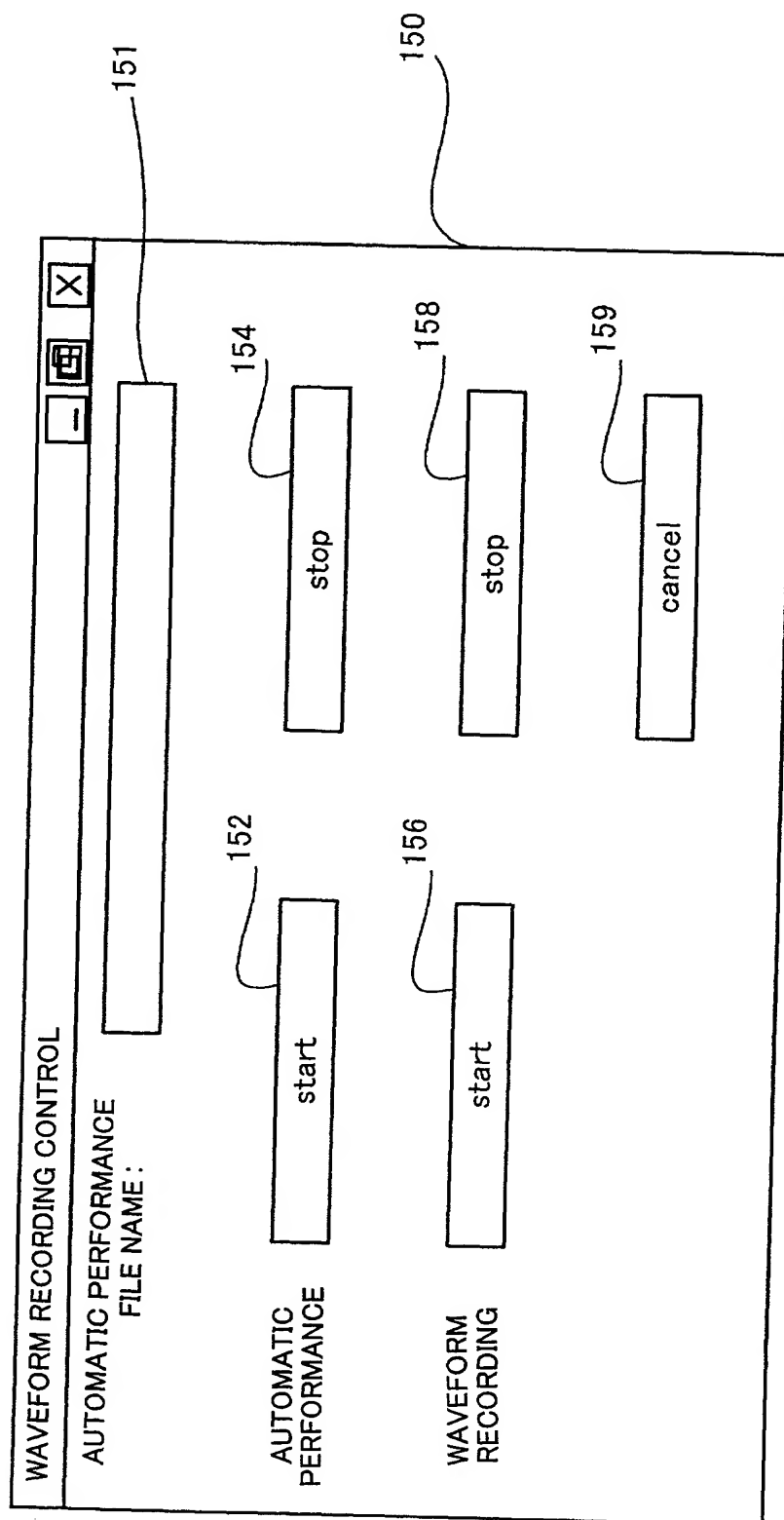


FIG. 22

AUTOMATIC PERFORMANCE DATA

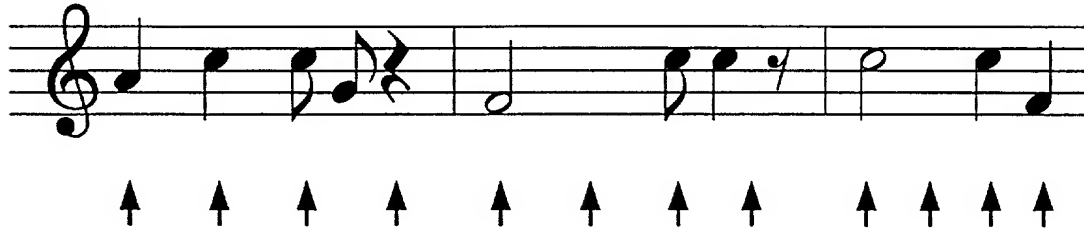


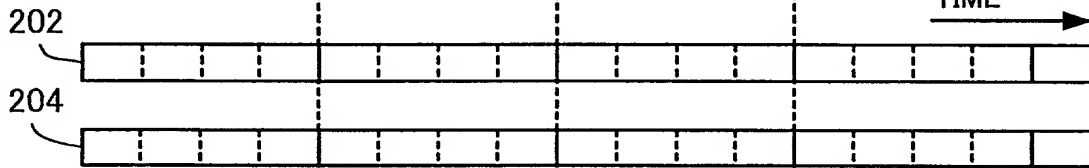
FIG. 23A

PHRASE WAVEFORM DATA

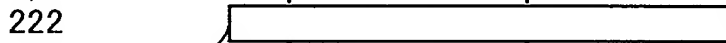
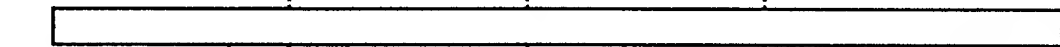


FIG. 23B

AUTOMATIC PERFORMANCE TRACK



WAVEFORM TIMING TRACK



224

START OF  
WAVEFORM  
RECORDING

AUTO. DIVISION

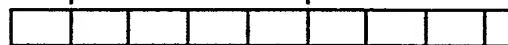


FIG. 23C

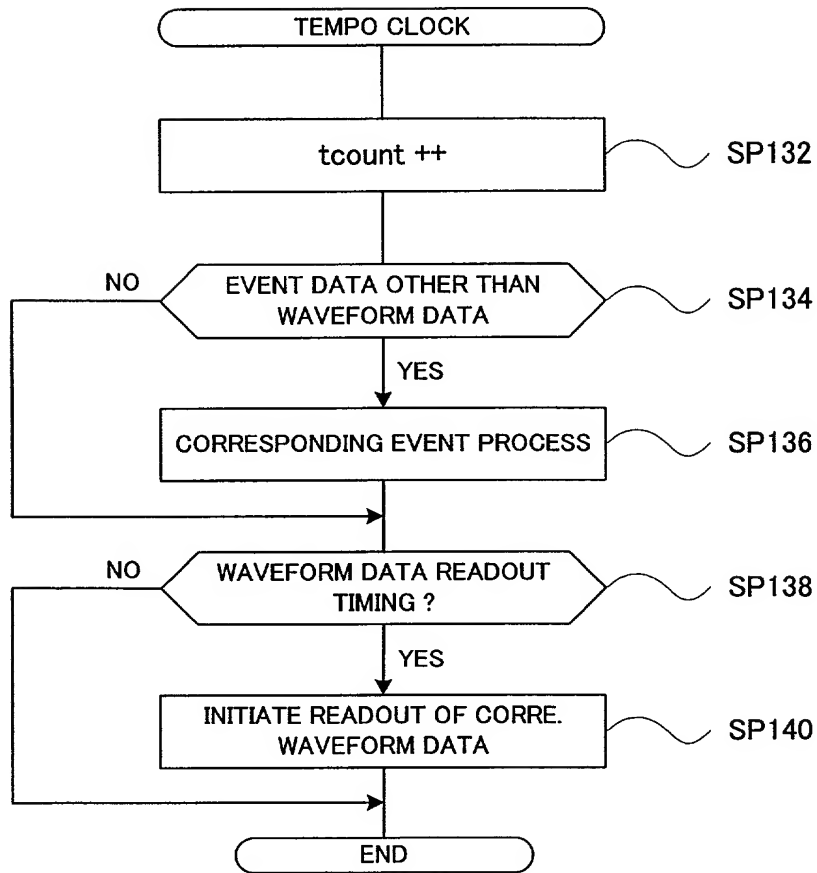


FIG. 24